



**ENGINEERING OPERATIONS COMMITTEE
MEETING MINUTES
MAY 7, 1998, 9:00 A.M.
EXECUTIVE CONFERENCE ROOM**

Present: G. D. Taylor J. D. Culp C. Roberts
 P. F. Miller J. D. O'Doherty D. Hornbeck (T. E. Davies)
 J. W. Reincke T. Fort M. H. Frankhouse
 S. Bower

Guest: C. Bleech M. Grazioli

OLD BUSINESS

1. Approval of the Minutes of the May 7, 1998, Meeting - C. T. Maki

Minutes of the May 7, 1998, meeting were approved as written.

2. Draft Raised Pavement Marker Usage Policy - J. D. O'Doherty/B. Zimmerman

The draft policy was reviewed and discussion noted several editorial changes and content additions that should be made before approval. A revised draft will be re-circulated. Action was tabled until the June meeting.

3. Final Report, *Test Method to Determine the Existence of Segregation in Bituminous Mixtures* (See January 8, 1998, Minutes, New Business, Item 3) - M. Frankhouse

The January 8, 1998, minutes state "MAPA will continue to be directly involved in this research." However, during Phase I of this research project the Michigan Asphalt Paving Association (MAPA) representative was not an active participant of the Technical Advisory Group. MAPA has been invited to be directly involved in Phase II and their representative will be an active member of the Technical Advisory Group.

NEW BUSINESS

1. I-75 Pavement Selection, NYC Railroad to Gratiot Avenue, City of Detroit, 82194/38100 - S. Bower/C. Bleech

The two pavement reconstruction alternatives were a plain jointed concrete pavement section and a Superpave bituminous mix design. The Life Cycle Cost Analysis method, as adopted by the Transportation Commission, was used to determine the most cost effective pavement design. The Pavement Selection Review Committee in consultation with Metro Region

recommended Alternate 1 (Plain Concrete Pavement) be approved for this project. Alternate 1 has the lowest life cycle cost.

Alternate 1 was approved and the pavement design and cost analysis are as follows:

300 mm (12"±)	Plain Concrete Pavement (5 Meter Joint Spacing)
200 mm (8"±)	Plain Concrete Shoulders - Tied
100 mm (4"±)	Metro Region Open Graded Drainage Course With Geotextile Separator
300 mm (12"±)	Sand Subbase
150 mm (6"±)	Open Graded Underdrains

Initial Cost	\$0.93 Million/Mile (Excludes User Costs)
Total Initial Cost	\$2.85 Million/Mile (Includes User Costs)
Life/Cycle Cost	\$1.00 Million/Mile (Excludes User Costs)
Total Life/Cycle Cost	\$2.92 Million/Mile (Includes User Costs)

Design will proceed toward a plan completion of November 1998.

2. **I-696 Pavement Selection, I-75 to Just East of Dequindre Road, Oakland County, 63103/34121 - S. Bower/C. Bleech**

The pavement reconstruction alternatives included a reinforced concrete section and a Superpave bituminous mix design. The Life Cycle Cost Analysis method, as adopted by the Transportation Commission, was used to determine the most cost effective pavement design. The Pavement Selection Review Committee, in consultation with the Metro Region, recommended Alternate 1 (Reinforced Concrete Pavement) be approved for this project. Alternate 1 has the lowest life cycle cost.

280 mm (11")	Reinforced Concrete Pavement (8.0 m Joint Spacing)
200 mm (8")	Reinforced Concrete Shoulders - Tied
100 mm (4")	Metro Region-Open Graded Drainage Course With Geotextile Separator
254 mm(10")	Sand Subbase - Retain Existing
150 mm (6")	Open Graded Underdrains

Initial Cost (Excludes User Delay Costs)	\$1.14 Million/Mile
Total Initial Cost (Includes User Delay Costs)	\$4.04 Million/Mile

Life Cycle Cost (Excluding User Delay Costs)	\$1.23 Million/Mile
Total Life Cycle Cost (Including User Delay Costs)	\$4.38 Million/Mile

Design will proceed toward a plan completion date of June 1998.

3. **Construction/Paving Industry Requests for Pavement Management Data - P. F. Miller/
S. Bower**

The issue was tabled until the June 4th EOC meeting. Paul Miller and Gary Taylor will meet with Tom Maki to review the need for a formal process and most operable approach to industry requests for pavement management data.

(Signed Copy on File at C&T/Secondary)
Jon W. Reincke, Secretary
Engineering Operations Committee

JWR:kat

cc: EOC Members
Region Engineers

J. R. DeSana	R. J. Risser, Jr. (MCPA)	T. Adams (MCA)	B. Richter
R. J. Lippert, Jr.	A. C. Milo (MRBA)	J. Ruszkowski	R. D. Till
D. L. Smiley	J. Becsey (MAPA)	C. Libiran	M. Frierson
M. Nystrom (AUC)	G. L. Mitchell	G. J. Bukoski	C. W. Whiteside
M. Newman (MAA)	J. Steele (FHWA)	K. Rothwell	M. S. Watson